



09/ 682 501

PATENT
03DV-7116

ARG

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No.: 6,633,097 B2

Issued: October 14, 2003

Inventors: Dunlap et al.

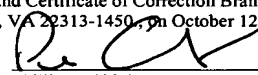
Assignee: General Electric Company

For: MECHANICAL JOINING FOR WATER
COOLED MOTOR FRAME

Certificate
OCT 19 2005
of Correction

CERTIFICATE OF MAILING

I certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Decisions and Certificate of Correction Branch, P.O. Box 1450, Alexandria, VA 22313-1450, on October 12, 2005.


Phillip A. Shipley
Reg. No. 51,357

Decisions and Certificate of Correction Branch
P.O. Box 1450
Alexandria, VA 22313-1450.

REQUEST FOR RECONSIDERATION

Sir:

Applicants respectfully request reconsideration of the request for the issuance of a certificate of correction for the above-identified patent.

Submitted herewith is a copy of the Notice of Allowance and Fee(s) Due and the Notice of Allowability dated April 23, 2003 with the Examiner accepting an Amendment filed on March 19, 2003. The request for certificate of correction included the following:

In Claim 8, column 6, line 24, after "first stator frame end;" insert -- a second end shield secured to said second stator frame end; and --.

The requested correction is in-line with Claim 8 shown in the accepted Amendment.

Therefore, Applicants respectfully request reconsideration of the changes indicated in the request for certificate of correction dated March 7, 2005.

OCT 25 2005

For your convenience, Applicants hereby submit a copy of the Request for Certificate of Correction and the Certificate of Correction Form PTO/SB/44 mailed March 7, 2005, and the USPTO Response to the Request for Certificate of Correction dated April 18, 2005.

The Assignment for this patent is recorded on Reel 011946/ Frame 0702.

Respectfully submitted,

Date: 10/6/05

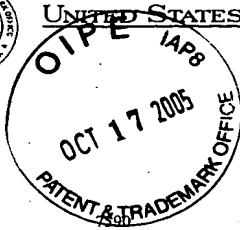


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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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NOTICE OF ALLOWANCE AND FEE(S) DUE

23465

04/23/2003

JOHN S. BEULICK
C/O ARMSTRONG TEASDALE, LLP
ONE METROPOLITAN SQUARE
SUITE 2600
ST LOUIS, MO 63102-2740

EXAMINER

TAMAI, KARL I

ART UNIT

CLASS-SUBCLASS

2834

310-054000

DATE MAILED: 04/23/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/682,501	09/10/2001	Robert A. Dunlap	03-DV-7116	7906

TITLE OF INVENTION: MECHANICAL JOINING FOR WATER-COOLED MOTOR FRAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	07/23/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

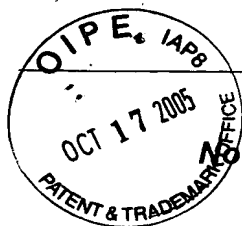
☐ Applicant claims SMALL ENTITY status.
See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

ENTERED
Date: 4/28/03
By: mcc
12552-330



Notice of Allowability

Application No.

09/682,501

Examiner

Tamai IE Karl

Applicant(s)

DUNLAP ET AL.

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/19/03.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☒ The drawings filed on 10 September 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

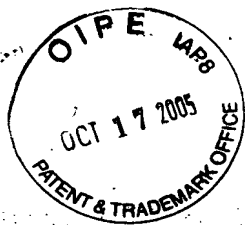
7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| <input type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____ |
| <input type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. _____ | 6 <input type="checkbox"/> Examiner's Amendment/Comment |
| <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other |



THE UNITED STATES PATENT OFFICE IS REQUESTED TO IMPRESS ITS STAMP ON THIS CARD AND PLACE SAME IN THE OUTGOING MAIL TO SHOW THE FOLLOWING PAPERS HAVE BEEN RECEIVED.

Atty Dkt. No.: 03-DV-7116 (12552-330)

Applicants: Dunlap, et al.

Serial No.: 09/682,501

Filed: September 10, 2001

For: MECHANICAL JOINING FOR WATER-COOLED MOTOR FRAME

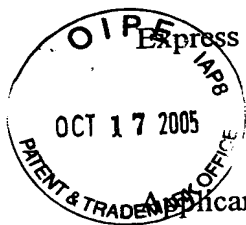
Enclosed:

- Amendment in response to Office Action of 1/16/03 (5pgs)
- Submission of Marked Up Claims (2pgs)
- Amendment transmittal form (3 pgs.- in duplicate)
- Certificate of Mailing via Express Mail (1 page)
- Return post card

DMF:mc

Express Mail Label No: EV263875235US

Mailed: March 19, 2003



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PATENT
03-DV-7116

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Dunlap et al.

Serial No.: 09/682,501

Filed: September 10, 2001

For: MECHANICAL JOINING FOR
WATER-COOLED MOTOR
FRAME

Art Unit: 2834

Examiner: Tamai, K.

CERTIFICATE OF MAILING BY EXPRESS MAIL TO
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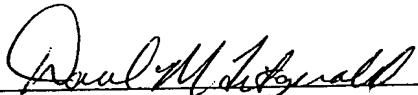
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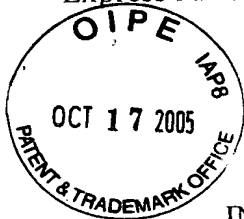
I certify that the documents listed below:

- Amendment in response to Office Action of 1/16/03 (5pgs)
- Submission of Marked Up Claims (2pgs)
- Amendment transmittal form (3 pgs.- in duplicate)
- Certificate of Mailing via Express Mail (1 page)
- Return post card

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EV263875235US


Daniel M. Fitzgerald
Reg. No. 38,880
Armstrong Teasdale LLP
One Metropolitan Square, Suite 2600
St. Louis, MO 63102
(314) 621-5070



03-DV-7116
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Dunlap et al. :
Serial No.: 09/682,501 : Art Unit: 2834
Filed: September 10, 2001 : Examiner: Tamai, K.
For: MECHANICAL JOINING FOR :
WATER-COOLED MOTOR :
FRAME :

Commissioner for Patents
Washington, D.C. 20231

TRANSMITTAL

- Transmitted herewith is:
Amendment in response to Office Action dated January 16, 2003 (5pgs); Submission of Marked Up Claims (2pgs); Amendment Transmittal (3pgs – in duplicate); Certificate of Mailing by Express Mail (1pg); return postcard

STATUS

- Applicant
☐ claims small entity status.
☒ is other than a small entity.

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.8a)

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Patents, Washington, D.C. 20231.

Date: 3-19-03

Daniel M. Fitzgerald
Reg. No. 38,880

EXTENSION OF TERM

3. The proceedings herein are for a patent application and the provisions of 37 C.F.R. 1.136 apply.

(complete (a) or (b), as applicable)

- (a) _____ Applicant petitions for an extension of time under 37 C.F.R. 1.136
(Fees: 37 C.F.R. 1.17(a)-(d) for the total number of months checked below:)

Extension for response within:	Other than small entity Fee	Small entity Fee (if applicable)
_____ First month	\$ 110.00	\$ 55.00
_____ Second month	\$ 400.00	\$ 200.00
_____ Third month	\$ 920.00	\$ 460.00
_____ Fourth month	\$1,440.00	\$ 720.00
_____ Fifth month	\$1,960.00	\$ 980.00

Fee: \$ _____

If an additional extension of time is required, please consider this a petition therefor.

(Check and complete the next item, if applicable)

_____ An extension of _____ months has already been secured. The fee paid therefor \$ _____ is deducted from the total fee due for the total months of extension now requested.

Extension fee due with this request \$ _____.

OR

- (b) ☒ Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition for extension of time.

FEE FOR CLAIMS

4. The fee for claims (37 C.F.R. 1.16(b)-(d)) has been calculated as shown below:

(Col. 1)		(Col. 2)	(Col. 3)	SMALL ENTITY		OTHER THAN SMALL ENTITY
CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA	ADDITIONAL RATE FEE	OR	ADDITIONAL RATE FEE
TOTAL	MINUS	=		x \$9 = \$		x \$18 = \$
INDEP.	MINUS	=		x \$42 = \$		x \$84 = \$
FIRST PRESENTATION OF MULTIPLE DEP. CLAIM				+ \$130 = \$		+ \$280 = \$
				TOTAL ADDITIONAL FEE \$	OR	TOTAL ADDITIONAL FEE \$

(a) ☒ No additional fee for Claims is required

OR

(b) _____ Total additional fee for claims required \$

FEE PAYMENT

5. _____ Attached is a check in the sum of \$_____

_____ Charge Deposit Account No. 01-2384 the sum of \$_____.

☒ A duplicate of this transmittal is attached.


FEE DEFICIENCY

6. ☒ If any additional extension and/or fee is required, charge Deposit Account No. 01-2384.

AND/OR

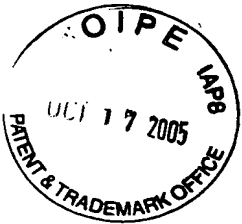
☒ If any additional fee for claims is required, charge Deposit Account No. 01-2384.

7. _____ Other:


 Daniel M. Fitzgerald
 Registration No. 38,880
 ARMSTRONG TEASDALE LLP
 One Metropolitan Square, Suite 2600
 St. Louis, MO 63102
 314/621-5070

COPY

03-DV-7116
PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Dunlap et al. :
Serial No.: 09/682,501 : Art Unit: 2834
Filed: September 10, 2001 : Examiner: Tamai, K.
For: MECHANICAL JOINING FOR :
WATER-COOLED MOTOR :
FRAME :

Commissioner for Patents
Washington, D.C. 20231

TRANSMITTAL

- Transmitted herewith is:
Amendment in response to Office Action dated January 16, 2003 (5pgs); Submission of Marked Up Claims (2pgs); Amendment Transmittal (3pgs – in duplicate); Certificate of Mailing by Express Mail (1pg); return postcard

STATUS

- Applicant
☒ claims small entity status.
☐ is other than a small entity.

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.8a)

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Patents, Washington, D.C. 20231.

Date: 3-19-03

Daniel M. Fitzgerald
Reg. No. 38,880

EXTENSION OF TERM

3. The proceedings herein are for a patent application and the provisions of 37 C.F.R. 1.136 apply.

(complete (a) or (b), as applicable)

- (a) _____ Applicant petitions for an extension of time under 37 C.F.R. 1.136
(Fees: 37 C.F.R. 1.17(a)-(d) for the total number of months checked below:)

Extension for response within:	Other than small entity Fee	Small entity Fee (if applicable)
_____ First month	\$ 110.00	\$ 55.00
_____ Second month	\$ 400.00	\$ 200.00
_____ Third month	\$ 920.00	\$ 460.00
_____ Fourth month	\$1,440.00	\$ 720.00
_____ Fifth month	\$1,960.00	\$ 980.00

Fee: \$ _____

If an additional extension of time is required, please consider this a petition therefor.

(Check and complete the next item, if applicable)

_____ An extension of _____ months has already been secured. The fee paid therefor \$_____ is deducted from the total fee due for the total months of extension now requested.

Extension fee due with this request \$ _____.

OR

- (b) ☒ Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition for extension of time.

FEE FOR CLAIMS

4. The fee for claims (37 C.F.R. 1.16(b)-(d)) has been calculated as shown below:

(Col. 1)		(Col. 2)	(Col. 3)	SMALL ENTITY		OTHER THAN SMALL ENTITY
CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA	ADDITIONAL RATE FEE	OR	ADDITIONAL RATE FEE
TOTAL INDEP.	MINUS		=	x \$9 = \$		x \$18 = \$
	MINUS		=	x \$42 = \$		x \$84 = \$
— FIRST PRESENTATION OF MULTIPLE DEP. CLAIM				+ \$130 = \$		+ \$280 = \$
				TOTAL ADDITIONAL FEE \$	OR	TOTAL ADDITIONAL FEE \$

- (a) X No additional fee for Claims is required

OR

- (b) Total additional fee for claims required \$

FEE PAYMENT

5. Attached is a check in the sum of \$
 Charge Deposit Account No. 01-2384 the sum of \$.
 X A duplicate of this transmittal is attached.

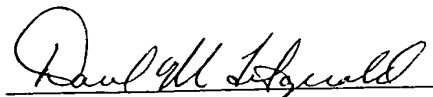
FEE DEFICIENCY

6. X If any additional extension and/or fee is required, charge Deposit Account No. 01-2384.

AND/OR

- X If any additional fee for claims is required, charge Deposit Account No. 01-2384.

7. Other:


 Daniel M. Fitzgerald
 Registration No. 38,880
 ARMSTRONG TEASDALE LLP
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 St. Louis, MO 63102
 314/621-5070



Express Mail No.: EV263875235US

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Applicant: Dunlap et al.

Serial No.: 09/682,501

Filed: September 10, 2001

For: MECHANICAL JOINING FOR
WATER-COOLED MOTOR
FRAME

:
: Art Unit: 2834
:
: Examiner: Tamai, K.
:
:
:
:

AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Applicants respectfully request consideration and entry of the following amendment submitted in response to the Office Action dated January 16, 2003.

IN THE CLAIMS

1. (twice amended) A stator frame for an electric motor, said stator frame comprising:

a substantially cylindrical shaped-body section having opposed ends, and a cooling passageway extending through at least a portion of said body section, said cooling passageway comprising a cooling conduit;

an inlet port and an outlet port in flow communication with said cooling passageway;
and

at least one spacer bar comprising a notched side and at least one finger projecting outwardly from said notched side, said at least one finger crimpable around said cooling conduit such that upon crimping said at least one finger extends circumferentially around said cooling conduit substantially surrounding said cooling conduit and mechanically coupling said spacer bar to said cooling conduit.

8. (twice amended) An electric motor, comprising:

a stator frame comprising a substantially cylindrical shaped body section having opposed first and second ends, and a cooling passageway extending through at least a portion of said body section, said frame further comprising an inlet port and an outlet port in flow communication with said cooling passageway, said cooling passageway comprising a cooling conduit;

a first end shield secured to said first stator frame end;

a second end shield secured to said second stator frame end; and

at least one spacer bar mechanically coupled to said cooling conduit, said spacer bar comprising a notched side and at least one finger projecting outwardly from said notched side, said at least one finger crimpable around said cooling conduit such that upon crimping said at least one finger extends circumferentially around said cooling substantially surrounding said cooling conduit and mechanically coupling said spacer bar to said cooling conduit.

Remarks

The Office Action mailed January 16, 2003 has been carefully reviewed and the foregoing amendment has been made in consequence thereof.

Applicants and the undersigned wish to express their appreciation to the Examiner for the courtesies he extended during a telephone interview that occurred on March 12, 2003. During the interview, the Office Action dated January 16, 2003 was discussed. More specifically, Claims 1 and 8 and the recitation "substantially surrounding said cooling conduit ..." were discussed along with the cited references, namely Crowell et al. (US 5,859,482). During the interview, Applicants and the Examiner agreed that Crowell et al. neither described nor suggested the claimed invention. Accordingly, the following amendment has been made in consequence thereof. Submitted herewith is a Submission of Marked Up Claims.

Claims 1-15 are now pending in this application. Claims 1-15 stand rejected.

The rejection of Claims 1-15 under 35 U.S.C. § 102(b) as being anticipated by Crowell et al. (US 5,859,482) ("Crowell") is respectfully traversed.

Applicants respectfully submit that Crowell does not describe nor suggest the claimed invention. As discussed below and as agreed to during the Examiner Interview, at least one of the differences between Crowell and the present invention is that Crowell neither describes nor suggests a spacer bar having a notched side and at least one finger projecting outwardly from the notched side wherein the at least one finger is crimpable around a cooling conduit such that upon crimping the at least one finger extends circumferentially around the cooling conduit substantially surrounding the cooling conduit and mechanically coupling the spacer bar to the cooling conduit.

Crowell describes a liquid cooled electric motor stator frame (102) that includes a cooling conduit (142). Cooling conduit (142) is arranged in a generally helical configuration and stator frame (102) is cast around cooling conduit (142) such that conduit (142) is embedded within, and integral with, stator frame (102). A plurality of spacer bars (152) provide support for cooling conduit (142) and facilitate maintaining a desired spacing between a plurality of lengths of cooling conduit (142) and between conduit (142) and a stator frame wall.

Claim 1 recites a stator frame for an electric motor that includes a cooling conduit, and "at least one spacer bar comprising a notched side and at least one finger projecting outwardly from said notched side, said at least one finger crimpable around said cooling conduit such that upon crimping said at least one finger extends circumferentially around said cooling conduit substantially surrounding said cooling conduit and mechanically coupling said spacer bar to said cooling conduit."

Crowell does not describe nor suggest a stator frame for an electric motor that includes at least one spacer bar having a notched side and at least one finger projecting outwardly from the notched side wherein the at least one finger is crimpable around a cooling

conduit such that upon crimping the at least one finger extends circumferentially around the cooling conduit substantially surrounding the cooling conduit and mechanically coupling the spacer bar to the cooling conduit.

Rather, Crowell describes a liquid cooled electric motor stator frame that includes a plurality of spacer bars that engage a cooling conduit. Although Crowell describes at column 5, lines 37-38; column 6, lines 46-49; and column 7, lines 8-11 spacer bars that are engaged to a conduit, Crowell does not describe nor suggest a spacer bar having a notched side and at least one finger projecting outwardly from the notched side wherein the at least one finger is crimpable around a cooling conduit such that upon crimping the at least one finger extends circumferentially around the cooling conduit substantially surrounding the cooling conduit and mechanically coupling the spacer bar to the cooling conduit. For at least the reasons set forth above, Claim 1 is submitted to be patentable over Crowell.

Claims 2-7 depend, directly or indirectly, from independent Claim 1. When the recitations of Claims 2-7 are considered in combination with the recitations of Claim 1, Applicants submit that dependent Claims 2-7 likewise are patentable over Crowell.

Claim 8 recites an electric motor that includes a cooling conduit, and "at least one spacer bar mechanically coupled to said cooling conduit, said spacer bar comprising a notched side and at least one finger projecting outwardly from said notched side, said at least one finger crimpable around said cooling conduit such that upon crimping said at least one finger extends circumferentially around said cooling conduit substantially surrounding said cooling conduit and mechanically coupling said spacer bar to said cooling conduit."

Crowell does not describe nor suggest an electric motor that includes a cooling conduit, and at least one spacer bar mechanically coupled to a cooling conduit, wherein the spacer bar has a notched side and at least one finger projecting outwardly from the notched side, and wherein the at least one finger is crimpable around the cooling conduit such that upon crimping the at least one finger extends circumferentially around the cooling conduit substantially surrounding the cooling conduit and mechanically coupling the spacer bar to the cooling conduit.

More specifically, Crowell does not describe nor suggest a spacer bar having a notched side and at least one finger projecting outwardly from the notched side wherein the at least one finger is crimpable around a cooling conduit such that upon crimping the at least one finger extends circumferentially around the cooling conduit substantially surrounding the cooling conduit.

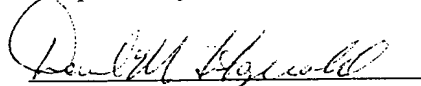
Rather, Crowell describes a liquid cooled electric motor stator frame that includes a plurality of spacer bars that engage a cooling conduit. Although Crowell describes a spacer bar that engages a cooling conduit, Crowell does not describe nor suggest a spacer bar having a notched side and at least one finger projecting outwardly from the notched side wherein the at least one finger is crimpable around a cooling conduit such that upon crimping the at least one finger extends circumferentially around the cooling conduit substantially surrounding the cooling conduit and mechanically coupling the spacer bar to the cooling conduit. For at least the reasons set forth above, Claim 8 is submitted to be patentable over Crowell.

Claims 9-15 depend, directly or indirectly, from independent Claim 8. When the recitations of Claims 9-15 are considered in combination with the recitations of Claim 8, Applicants submit that dependent Claims 9-15 likewise are patentable over Crowell.

For at least the reasons set forth above, Applicants respectfully request that the Section 102 rejection of Claims 1-15 be withdrawn.

In view of the foregoing amendment and remarks, all the claims now active in this application are believed to be in condition for allowance. Reconsideration and favorable action is respectfully solicited.

Respectfully Submitted,



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Dunlap et al. :
: Art Unit: 2834
Serial No.: 09/682,501 :
: Examiner: Tamai, K.
Filed: September 10, 2001 :
:
For: MECHANICAL JOINING FOR :
WATER-COOLED MOTOR :
FRAME :

SUBMISSION OF MARKED-UP CLAIMS

Commissioner for Patents
Washington, D.C. 20231

Submitted herewith are marked up claims in accordance with 37 CFR 1.211(c)(1)(ii).

IN THE CLAIMS

1. (twice amended) A stator frame for an electric motor, said stator frame comprising:

a substantially cylindrical shaped body section having opposed ends, and a cooling passageway extending through at least a portion of said body section, said cooling passageway comprising a cooling conduit;

an inlet port and an outlet port in flow communication with said cooling passageway;
and

at least one spacer bar comprising a notched side and at least one finger projecting outwardly from said notched side, said at least one finger crimpable around said cooling conduit such that upon crimping said at least one finger extends circumferentially around said cooling conduit [to said notched side] substantially surrounding said cooling conduit and mechanically coupling said spacer bar to said cooling conduit.

8. (twice amended) An electric motor, comprising:

a stator frame comprising a substantially cylindrical shaped body section having opposed first and second ends, and a cooling passageway extending through at least a portion

of said body section, said frame further comprising an inlet port and an outlet port in flow communication with said cooling passageway, said cooling passageway comprising a cooling conduit;

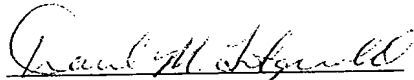
a first end shield secured to said first stator frame end;

a second end shield secured to said second stator frame end; and

at least one spacer bar mechanically coupled to said cooling conduit, said spacer bar comprising a notched side and at least one finger projecting outwardly from said notched side, said at least one finger crimpable around said cooling conduit such that upon crimping said at least one finger extends circumferentially around said cooling conduit [to said notched side] substantially surrounding said cooling conduit and mechanically coupling said spacer bar to said cooling conduit.

In view of the foregoing amendment and remarks, all the claims now active in this application are believed to be in condition for allowance. Reconsideration and favorable action is respectfully solicited.

Respectfully Submitted,



Daniel M. Fitzgerald

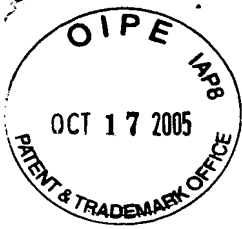
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THE UNITED STATES PATENT OFFICE IS REQUESTED TO IMPRESS ITS STAMP
ON THIS CARD AND PLACE SAME IN THE OUTGOING MAIL TO SHOW THE FOLLOWING
PAPERS HAVE BEEN RECEIVED.

Atty Dkt. No: 03DV-7116 (12552-330)

Application of: Dunlap et al.

Patent No: 6,633,097 B2

Issued: October 14, 2003

For: MECHANICAL JOINING FOR WATER COOLED MOTOR FRAME

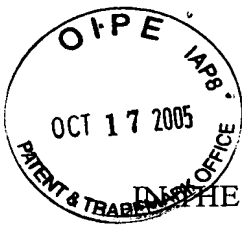
Enclosed:

Request for Certificate of Correction of Patent (1 pg. in duplicate)

Form PTO/SB/44 (1 pg. in duplicate)

PAS/cls

Date Mailed: March 07, 2005



PATENT
03DV-7116

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No.: 6,633,097 B2

Issued: October 14, 2003

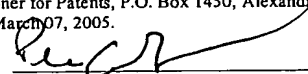
Inventors: Dunlap et al.

Assignee: General Electric Company

For: MECHANICAL JOINING FOR WATER
COOLED MOTOR FRAME

CERTIFICATE OF MAILING

I certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450., on March 07, 2005.


Phillip A. Shipley
Reg. No. 51,357

Hon. Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450.

REQUEST FOR CERTIFICATE OF CORRECTION OF
PATENT UNDER 37 C.F.R. 1.322(a)

Sir:

Attached, in duplicate, is Form PTO/SB/44 with one copy being suitable for printing.

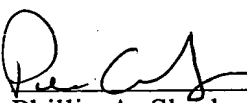
In Claim 8, column 6, line 24, after "first stator frame end;" insert -- a second end shield secured to said second stator frame end; and --.

The correction is not due to any error by applicants and no fee is due.

The Assignment for this patent is recorded on Reel 011946/ Frame 0702.

Respectfully submitted,

Date: 3/7/05



Phillip A. Shipley
Reg. No. 51,357

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OCT 25 2005

Approved for use through 04/30/2007. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,633,097 B2
DATED : October 14, 2003
INVENTORS(S) : Dunlap et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 8, column 6, line 24, after "first stator frame end; " insert -- a second end shield secured to said second stator frame end; and --.

MAILING ADDRESS OF SENDER:

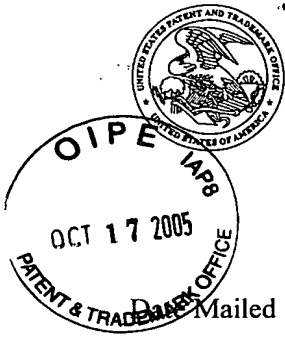
Phillip A. Shipley
Reg. No: 51,357
Armstrong Teasdale LLP
One Metropolitan Sq., Suite 2600
St. Louis, MO 63102

PATENT NO. 6,633,097 B2

No. of additional copies

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

OCT 25 2005



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
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P.O. Box 1450
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www.uspto.gov

April 18, 2005

Patent No. : 6,633,097
Inventor : Dunlap et al.
Patent Issued : October 14, 2003
Docket No. : 03DV-7116

Re: Request for Certificate of Correction

Consideration has been given your request for the issuance of a certificate of correction for the above-identified patent under the provisions of Rule(s) 1.322.

Inspection of the application for the patent reveals, however, that in connection with the alleged error to which applicant refer; Claim 8, column 6, line 24 is printed in accordance with the record of the Patent and Trademark Office as passed to issue by the examiner. There being no fault on the part of the Patent and Trademark Office, it has no authority to issue a certificate of correction under the provisions of 35 U.S.C. 254 and Rule 322 of the Rules of Practice of the United States Patent and Trademark Office in Patent Cases.

In view of the foregoing, applicants request is hereby denied.

Any telephone inquiry concerning this communication should be directed to Ms. A. Green at (703) 308-9380 ext. 123. Further correspondence concerning the matter should be filed and directed to Decisions & Certificate of Correction Branch. Any response(s) must be filed within a two-month period.

Cecelia Newman
Cecelia Newman
Decisions & Certificates
of Correction Branch
(703) 308-9390 or
(703) 308-9380 ext. 123.

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CBN/arg